



M.ENG INNOVATION ENGINEERING

2-YEAR PROGRAM
THESIS AND NON - THESIS OPTIONS

MASTER OF ENGINEERING IN INNOVATION ENGINEERING

This modern engineering discipline combines mechanical, electrical, energy engineering, computer systems, intelligent robotics, and information technologies to design innovative products and processes. The program focuses on:

- Integrating multiple engineering fields for synergy.
- Solving real-world problems with practical, innovative approaches.
- Challenging traditional engineering methods through cross-disciplinary teamwork.

QUALIFICATION FOR ADMISSION

1. Candidates must hold a Bachelor's degree in Engineering, Science, or a related field from an institution accredited by the Ministry of Education, Thailand.
 - Candidates without the specified degree may be required to enroll in foundation courses, as determined by the program director and approved by the dean.
2. Candidates must have:
 - A GPA of at least 2.5 on a 4.0 scale, or
 - At least one year of work experience in engineering or a related field.
3. Candidates are required to complete the admission test and/or an interview specific to the program.

APPLICATION REQUIREMENTS

1. A completed application form
2. Official transcript of the previous university attended (1 copy)
3. Bachelor's degree certificate (1 copy)
4. Citizen identification card and house registration (1 copy) - for Thai applicants
5. Passport (1 copy) - for Non-Thai applicants
6. One (1x1.5 inches) photograph (formal attire, not in graduation gown)
7. Letter of recommendation from former instructors or employers at the time of the application (2 letters)

Applicants who are graduates from overseas universities will be required to provide at the time of applying and not later, certified, attested, or notarized by competent notaries, all academic documents.

ADMISSION FEE 1,000 THB (Non-refundable)

ENTRANCE EXAMINATION

- AU English Proficiency Test
- Interview Entrance Examination

Exemption

The AU English Proficiency Test can be exempted depending on which of the following conditions you satisfy.

- a TOEFL score of (iBT) 80 or an IELTS (Academic) score of at least 6.0 (Validation: Two years)
- a Bachelor's degree from native English speaking countries (USA, Canada, UK, New Zealand and Australia)

VENUE & CLASS HOURS

» Hua Mak Campus, Ramkhamhaeng 24 Road
 Mon. - Fri. 6.30 P.M. - 9.30 P.M.
 Sat. - Sun. 9.00 A.M. - 5.00 P.M.

DURATION: 2 years

GRADUATION REQUIREMENTS

Plan 1 : Coursework and Thesis

1. Completed all required courses in the curriculum.
2. Achieved a cumulative grade point average (GPA) of at least 3.00.
3. Proposed the thesis and successfully passed the final oral thesis defense, evaluated by a university-appointed committee. The defense is open to the public.
4. Published the thesis or a part of it, or obtained acceptance for publication in a national or international journal, in accordance with OHEC's Regulations on Criteria for Selection of Academic Journals for Publication of Academic Works (B.E. 2565), and accepted by the faculty's agreements. Alternatively, presented at a conference and had the full paper published in the proceedings.
5. Have obtained library and financial clearance from the university.
6. Have demonstrated good behavior and discipline.

Plan 2: Coursework and Independent Study

1. Completed all required courses in the curriculum.
2. Achieved a cumulative grade point average (GPA) of at least 3.00.
3. Passed the oral and / or written comprehensive examinations.
4. Proposed the independent study and successfully passed the final oral defense, evaluated by a university-appointed committee. The defense is open to the public.
5. Published the independent study or a part of it in any retrievable form.
6. Have obtained library and financial clearance from the university.
7. Have demonstrated good behavior and discipline.

ADMISSION SCHEDULE 2025 / 2026

Schedule	Trimester 1/2025	Trimester 2/2025	Trimester 3/2025
	May-August 2025	September-December 2025	January-April 2026
Application Deadline	26 April 2025	23 August 2025	26 December 2025
AU EPS Test and Interview	By appointment	By appointment	By appointment
Registration & Payment	22-25 April 2025	26-30 August 2025	To be announced
Induction Day	5 May 2025	1 September 2025	10 January 2026
Instruction begins	6 May 2025	2 September 2025	12 January 2026

Number of Credits: **45 credits**

Curriculum Structure

Plan 1: Coursework and Thesis

Required courses: 6 credits
 Elective courses: 27 credits
 Thesis: 12 credits
Total: 45 credits

Plan 1: Coursework and Thesis

First Year | First Semester

INE 6211: Commercial Product Innovation, Engineering Management, and Entrepreneurships
 INE 6212: Engineering Seminar and Research Method Elective Course

Second Semester

Elective Course(s) (choose 1-3)

Third Semester

Elective Course(s) (choose 1-3)

Second Year | First Semester

Elective Course(s) (choose 1-2)

Second Semester

INE 7221: Thesis

Third Semester

INE 7221: Thesis

Courses

Foundation Courses

INE 5111: Fundamentals in Engineering

Required Courses

INE 6211: Product Innovation, Engineering Management, and Entrepreneurships

INE 6212: Engineering Seminar and Research Method

Elective Courses

INE 6311: Engineering Analysis
 INE 6312: Numerical Simulation using Finite Element Method
 INE 6314: Thermal System Design
 INE 6315: Digital Control Systems
 INE 6316: Mechatronics and Robotics
 INE 6411: Renewable Energy Engineering and Innovation
 INE 6412: Smart Grid Innovation for Smart Energy
 INE 6413: Energy Storage Engineering and Innovation
 INE 6414: Energy Conservation in Industry and Building Innovation
 INE 6415: Automotive Power Electronic and Control System
 INE 6416: Automotive Electrical Machines and Drives
 INE 8416: Advanced Automotive Electrical Machines and Drives
 INE 6511: Design and Analysis of Computer Algorithms
 INE 6512: Digital System Architecture
 INE 6513: Artificial Neural Networks
 INE 6514: Digital Image Processing
 INE 6515: Data Engineering and Intelligent Systems
 INE 6516: Wireless Sensor Networks and Internet of Things
 INE 6611: System Modelling, Analysis and Design
 INE 6612: Computational Method, Optimization and Artificial Intelligence
 INE 6613: Selected Topics in Innovation Engineering 1
 INE 6614: Selected Topics in Innovation Engineering 2
 INE 6615: Selected Topics in Innovation Engineering 3
 INE 6616: Selected Topics in Innovation Engineering 4
 INE 7211: Independent Study
 INE 7221: Thesis

Curriculum Structure

Plan 2: Coursework and Independent Study

Required courses: 6 credits
 Elective courses: 33 credits
 Independent Study: 6 credits
Total: 45 credits

Plan 2: Coursework and Independent Study

First Year | First Semester

INE 6211: Commercial Product Innovation, Engineering Management, and Entrepreneurships
 INE 6212: Engineering Seminar and Research Method Elective Course

Second Semester

Elective Course(s) (choose 1-3)

Third Semester

Elective Course(s) (choose 1-3)

Second Year | First Semester

Elective Course(s) (choose 1-2)

Second Semester

INE 7211: Independent Study
 Elective Course

Third Semester

INE 7211: Independent Study
 Elective Course




Estimated Fees

Installments	Thai and Non Thai Students	
	(THB)	(US\$)*
1 st Installments	137,500	4,583
2 nd Installments	137,500	4,583
3 rd Installments	137,500	4,583
4 th Installments	137,500	4,583
Total	550,000	18,333

- The total fee above doesn't cover the followings:
 - Admission fee
 - Text books
 - Comprehensive Examination (if apply)
- The fees are subject to change at the university's discretion without prior notice.
- The exchange rate is contingent upon fluctuations in the foreign exchange market.



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IMPORTANT

The provisional information statements set forth in this catalog should not be construed as the basis of any contract between a student and this institution. As such Assumption University reserves the right to change any provision listed in this catalog, including, but not limited to academic requirements for graduation. Every effort through the Office of Graduate Studies, will be made to keep students advised of any such changes.

The University Registrar : Last updated April 2024

UNIVERSITY ADMISSIONS CENTER

ASSUMPTION UNIVERSITY

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Line



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